

Abstract of the Disclosure

The present invention provides materials and methods for pest control. The subject invention provides pesticidal compositions that contain one or more compounds that interact with organic solute transporter/ligand-gated ion channel multifunction polypeptides in the pest.

- 5 Upon exposure to a target pest, these compositions either compromise pest growth and/or cause the death of the pest. In a preferred embodiment, the compositions of the subject invention contain one or more amino acids and/or amino acid analogs. In a particularly preferred embodiment, the methods of the subject invention involve exposing a pest to a composition that comprises methionine or leucine, or an analog thereof.

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